

September, 15, 2016

USNRC Region I DNMS
2100 Renaissance Blvd
King of Prussia, PA 19406

52-19845-01
03019320

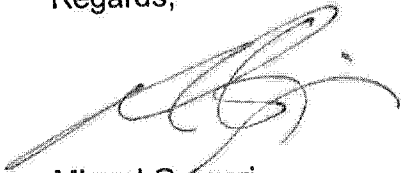
RE: Leak test results

Dear Sir or Madam,

Included are the leak test results for the devices stored at our Bayamon facility.

Please let me know if I can be of any assistance.

Regards,



Miguel Gregori
Quality Control Sub-Director

C. Angel Cartagena



PO BOX 21420, SAN JUAN, PR 00928-1420 TELS (787) 760-1094 / 764-1000 / 765-1234 FAX (787) 748-6720 / 758-7508 / 282-6408



Quality is not an accident, it is the aim of our people.

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REC'D IN LAT 09/19/2016

NMSS/RGNI MATERIALS-002

3N

Leak Test Record
NRC License 52-25430-01

Leak Tested For:	Betterroads	
Leak Tested By:	David Rhoe	
Standard Source (NIST tracable):	H-3	C-14
Standard Activity (uCi):	0.045525	0.020905
Standard Date:	04-Mar-96	04-Mar-96
Date of the Leak Test:	04-May-16	
Decay Activity uCi (from decay chart):	0.01468	0.02085
Standard (dpm):	32589.6	46287
Instrument used to count wipe sample:	Beckman LSC	
Instrument Model Number:	6500	
Instrument Serial Number:	4847	
NIST Traceable Standard (cpm)	18471	45479
Counting Efficiency:	0.57	0.98
Counting Efficiency in percentage (%):	56.68	98.25
Counting time (minutes)	1	1
Background (cpm)	24	24
Minimum Detectable Activity:	5.506E-06	3.176E-06

Wipe (Smear) Test: All external or accessible surfaces of the source or housing are wiped with a piece of filter paper or other absorbent material which has been moistened with an appropriate solvent and the activity removed is measured.
 Note: Background counts were not subtracted from wipe test sample to calculate sample activity.

Source ID and Serial Number	Wipe Test	Gamma	
		Sample Activity	Sample Activity
Am-241 & Cs-137 SnM380709094	125	0.00010	0.00006

This test reveals that 0.005 microcuries or less was present as removable contamination. Should the removable contamination exceed 0.005 microcuries, the source must be removed from use and necessary measures taken according to NRC regulations.


 David Rhoe Health/Medical Physicist

Leak Test Record
NRC License 52-25430-01

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Leak Tested By:	David Rhoe	
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Source ID and Serial Number	Wipe Test	Gamma	
		Sample Activity	Sample Activity
Am-241 & Cs-137 SnM331007182	49	0.00004	0.00002

This test reveals that 0.005 microcuries or less was present as removable contamination. Should the removable contamination exceed 0.005 microcuries, the source must be removed from use and necessary measures taken according to NRC regulations.


 David Rhoe Health/Medical Physicist